**Benjamin P. Cayton**

304-638-9603 564 Fairwood Rd.

cayton10@live.marshall.edu Huntington, West Virginia 25705

<https://github.com/cayton10> <https://www.linkedin.com/in/bencayton/>

**Education**

**Marshall University, Bachelor of Science: Computer Information Technology**

Huntington, West Virginia Graduation (projected): May 2021

**Marshall University, Bachelor of Science: Geology**

Huntington, West Virginia Graduated: 2016

Relevant coursework in: C++, Database Design, Web Development, and iOS Development.

Fundamental knowledge of:

* Object Oriented Programming and Data Structures with C++
* Web Development with PHP, jQuery, and MySQL
* Database Programming with PostgreSQL
* Database design and query leveraging MySQL
* Object Oriented Programming with C# in Visual Studio
* Version Control with Git and GitHub
* iOS Development Using XCode IDE

**Projects**

* Currency Converter:
  + This tool was built for Dupont HR professionals whom are responsible for moving employees across foreign state borders. Eliminates time for researching currency values and conducting conversion.
  + Currency Converter was expanded from a previous project which was designed to familiarize myself with leveraging REST APIs and consumption of JSON data.
  + This project retrieves data from one API in order to process data from another.
  + The theme was built from the ground up using the Bootstrap V.4 framework and jQuery / jQuery UI plugin.
* Paycheck$:
  + Paycheck$ was built to satisfy the requirements of my first PHP project in Web Programming II. The application serves to calculate a user’s net pay for a bi-weekly pay period.
  + The requirements for this application were to perform the appropriate mathematic functions based on pay rate ($ per hour) and hours worked. The application calculates tax deductions, overtime, gross, and net pay on a bi-weekly pay schedule.
  + I added functionality to the base application by providing an option to calculate deductions and net pay on a salary basis as opposed to hourly. I also added the function to report deductions and earnings on a weekly and bi-weekly basis.
  + A local MAMP server was configured and employed in order to test during development processes. I developed a working knowledge of how PHP can create dynamic HTML content based on user input as well as how to use a MAMP development server.
* TicTac:
  + TicTac was built to satisfy the requirements of my first jQuery project in Web Programming II. The application serves to allow users to play a game of the titular name, and record win / tie results.
  + The requirements for the application were to check for wins across rows, report the winner once a win condition is reached.
  + I added the ability for the user to play against a computer opponent, as well as checking for row and diagonal win conditions. I also built the entire theme from the ground up using the Bootstrap V.4 framework. I added custom AOS jQuery plugin animations to make the application more inviting and interactive upon page load.

**Work Experience**

**Navigator Environmental & Technical Services, Inc. Geologist I**

Morgantown, West Virginia December 2017 to July 2019

* Hydrogeologic research and drilling plan management
* Coordinating with drilling and aquifer pump testing contractors to facilitate project completion.
* Worked on various water and geotechnical projects for developing infrastructure in Hinton, Alberta, CA.
* Shallow foundation and cut-slope design and testing using RocScience Slide software.
* Hydrogeologic modeling using Visual MODFLOW Flex
* Coal reserve data analysis and geologic modeling.
* Management of geologic data integrity.
* Responsible for writing of Federal Application for Exploration License of Federal coal.
* Phase I Environmental Site Assessment Report Writing.
* GIS Analysis and map creation to support report and application findings.
* Responsible for writing geotechnical section of permitting application for an experimental deep mine operated by Big Horn Mining in Hinton, Alberta, CA.

**West Virginia Department of Environmental Protection**

**Environmental Resources Specialist I**

Kanawha City, West Virginia May 2017 to December 2017

* Landfill Closure Assistance Program (LCAP)
* Assisted LCAP Staff with managing multiple solid waste landfill closure assistance projects including: oversight and coordination of engineering and design, closure cap construction and leachate management, and post closure care and maintenance.
* Assisted LCAP Staff in preparation of numerous project documents for approval including work directives, contract specifications, project budgets, change orders, evaluation of bid proposals, etc.
* Perform on-site inspections to assure project work is completed timely and in accordance with plans, specifications and regulations.
* Coordinated and assisted, when necessary, the inspection and certification of the Above Ground Storage Tanks at assigned landfills.
* Monitoring of the LCAP on-line telemetry systems installed at various LCAP sites and reports any abnormalities to the inspector overseeing that project.
* Managed and trained office assistants in use of WV OASIS web applications.
* Interviewed prospective engineering firms prior to closure activities to validate their respective closure methods and techniques.
* Coordinated installation and specification of new wastewater flow meters at an LCAP site
* Assisted in construction of online digital inspection applications for field use.

**References:**

**Brian Morgan, CIT Dept. Chair – Marshall University**

**Office Phone: 304-696-6496**

**E-mail: brian.morgan@marshall.edu**

**Rachel Vass, PG, CMA, President - Vass Engineering and Mineral Appraisals, PLLC**

**Former Supervisor at Navigator Environmental & Technical Services, Inc.**

**Cell: 304-663-9970**

**Email: rachelvasspg@gmail.com**

**Kimberly Davidson, PG, U.S. Army Corps of Engineers**

**Office Phone: 304-399-6944**

**E-mail: Kimberly.D.Davidson@usace.army.mil**